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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/821,969	03/30/2001	Mats Hylin	19480-2506RE	5526

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EXAMINER

LEWIS, DAVID LEE

ART UNIT PAPER NUMBER

2673

DATE MAILED: 11/29/2001

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.
09/821,969

Applicant(s)

Hylln et al.

Examiner

David L Lewis

Art Unit

2673



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Mar 30, 2001
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 35 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-26 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirements

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- a) ☒ All b) ☐ Some* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- *See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- 15) ☒ Notice of References Cited (PTO-892) 18) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 19) ☐ Notice of Informal Patent Application (PTO-152)
- 17) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s). 1 20) ☐ Other: _____

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
2. **Claims 24 and 25 are rejected under 35 U.S.C. 102(a) as being anticipated by Mehovic (6122642).**
3. **As in claim 25, Mehovic teaches of a method of selectively displaying digital information at one or more of a plurality of locations, said method comprising: receiving control instructions from at least one information mediator, figure 1 item 26, figure 8 item 108; using said control instructions to generate an exposure list, said exposure list specifying display content display location display timing and display duration, column 6 lines 25-40, figure 9; displaying images at one or more of said locations in accordance with said exposure list, column 5 lines 5-50; and permitting said exposure list to be dynamically updated, column 1 lines 20-25, column 5 lines 5-50.**

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4. **As in claim 26, Mehovic teaches of a system for selectively displaying digital information at one or more of a plurality of locations, figures 1 and 8, said system comprising: a computerized control center, figure 1 item 10 (items 12, 16, 20, 20) having a plurality of communication interfaces for receiving control instructions, figure 9, figure 8 item 106, from at least one information mediator, figure 1 item 26, figure 8 item 108, said computerized control center including means for generating and dynamically updating an exposure list from said control instructions, column 6 lines 25-40, said exposure list specifying display content display location display timing and display duration, column 6 lines 25-40; a computerized device situated at each one of said plurality of locations, each computerized device being electronically coupled to said computerized control center, figure 2 item 104; and a means for displaying images in accordance with said exposure list associated with each one of said computerized devices, column 5 lines 25-50, wherein the end user is represented by a computer terminal inherently comprising a display, figure 2 item 104, and display text of the computer interface representing said images. Wherein Mehovic teaches of a computerized reservation system, wherein input commands by an end-users are used by a relational database sever application to coordinate and control a plurality of display means by virtue of a Passenger Name Record stored in the real time updated reservation system. The PNR is stored into four logical entities or tables in the relational database with are in total a reservation table, which is equivalent to said exposure list. The PNR is a mix of textual and parametric data, and serves to effect the display**

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as seen by an end-user interacting with the database from a plurality of end-user locations. Said textual data as well known comprised of textual bitmaps image or alpha-numeric characters, viewed within the confines of a graphical user interface. As the reservation information is changed, the database is updated, and the end-user becomes real time noticed of the change introduced by another end-user or due to previous set commands by the same user, such as when the PNR attribute purge date is scheduled to automatically eliminate or alter the status of a record. The system allows airline agents in a plurality of locations to access information via input display terminals, from the relational database and affect its change in real time, as well known.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. **Claims 1-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mehovic (6122642) in view of Martin (5448263) and Miyashita (5782548).**

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7. **As in claim 1, Mehovic teaches of a method of dynamically coordinating and controlling displays** in a digital information system to display material in public places on at least one display device, **figure 8 item 108**, said digital information system including a computerized control center having a plurality of communication interfaces, **figure 8 items 12, 16, and 106**, a plurality of computerized devices situated in proximity to said public places and being connected to said control center wherein each of said computerized devices controls at least one display, **column 1 lines 10-35, figure 8 items 104**, and at least one subscribing information mediator having communications drive routine means for selectively and transparently connecting to said control center, **figure 1 item 26**, said method comprising: receiving, by said control center, display information transmitted by said mediators at any time, said display information including booking information, specified by said at least one mediator, for reserving and controlling a time-period to display said display material, **column 3 lines 50-59**; generating, organizing, and dynamically updating an exposure list in real time, by an exposure handler included in said control center, in accordance with said display information, said exposure list also containing display control instructions based on said booking information, **column 3 lines 59-67**; coordinating and controlling select ones of said displays by said computer devices, in response to said display control instructions contained in said exposure list, in order to display said display material on said display device in real time, wherein said display information in said exposure list specifies a content of display, a location of display, a timing of display, and a duration of display, and said exposure list enables each of said select displays to independently and instantaneously receive said

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display information through said computerized devices, **column 4 lines 1-67, column 6 lines 25-55.**

However Mehovic is silent as to a display control instructions for controlling projectors based on control instructions contained in said exposure list. Computer controlled projectors are well known in the art and are utilized for the purpose of displaying computer information to varying audience sizes, that can vary from one user/viewer to many. **Martin teaches of a system for controlling a projector in conjunction with a computer, figure 1. Miyashita teaches of a system for controlling a projector in conjunction with a computer, figure 4.** The system as taught by Mehovic has user graphical interface to control and receive data on its reservation system. **It would have been obvious to the skilled artisan at the time of the invention to provide a projector output as taught by Martin or Miyashita for the computer terminals or output device as taught by Mehovic for the purpose of displaying terminal data or information to more than the direct user given the public nature of reservation information and the obvious need for a large display, for a large public audience. Wherein the system of Mehovic would modify its input terminals of figure 8 items 108 or 104, or the output means figure 4 item 100, for the purpose of outputting computer controlled projector displayed public information, as found in claim 1. Wherein Mehovic teaches of a computerized reservation system, wherein input commands by an end-users are used by a relational database sever application to coordinate and control a plurality of display means by virtue of a Passenger Name Record stored in the real time updated reservation system. The PNR is stored into four logical entities or tables in the relational database with are in total a reservation table, which is**

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equivalent to said exposure list. The PNR is a mix of textual and parametric data, and serves to effect the display as seen by an end-user interacting with the database from a plurality of end-user locations.

The display/projector control instructions would obviously be integrated into the application for interfacing the stored PNR with in the reservation system. Said textual data as well known comprised of textual bitmaps image or alpha-numeric characters, viewed within the confines of a graphical user interface. As the reservation information is changed, the database is updated, and the end-user becomes real time noticed of the change introduced by another end-user or due to previous set commands by the same user, such as when the PNR attribute purge date is scheduled to automatically eliminate or alter the status of a record. The system allows airline agents in a plurality of locations to access information via input display terminals, from the relational database and affect its change in real time, as well known.

8. **As in claim 13, Mehovic teaches of** a system for dynamically coordinating and controlling displays to display digital material on at least one display device in public places, said system comprising: a computerized control center for processing display information and having a plurality of communications interfaces to support data transmissions, **figure 8 items 12, 16, 106, 108**, said control center including an exposure handler for generating, organizing, and dynamically updating an exposure list in real time in accordance with said display information, **figure 8 item 12**, said exposure list also containing display control instructions based on said display information, **column**

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5 lines 40-67, column 6 lines 25-55; at least one information mediator for transmitting said display information to said control center at any time, each of said mediators being electronically coupled to said computerized control center via one of said communication interfaces and selectively and transparently connecting to said control center through a communications drive routine means, **figure 1 item 26, or figure 8 item 108**, said display information including booking information, specified by each of said mediators, for reserving and controlling a time-period to display said display material, **column 6 lines 25-67;** a plurality of computerized devices, situated in proximity to said public places, for coordinating and controlling select ones of a plurality of projectors in response to said projector control instructions, each of said computerized devices being electronically coupled to said computerized control center via one of said communication interfaces, **figure 8 items 104;** and wherein said display information in said exposure list specifies a content of display, a location of display, a timing of display, and a duration of display, and said exposure list enables each of said select displays to independently and instantaneously receive information through said computerized devices, **column 4 lines 25-55. However Mehovic is silent as to a display control instructions for controlling projectors based on control instructions contained in said exposure list. Computer controlled projectors are well known in the art and are utilized for the purpose of displaying computer information to varying audience sizes, that can vary from one user/viewer to many. Martin teaches of a system for controlling a projector in conjunction with a computer, figure 1. Miyashita teaches of a system for controlling a projector in conjunction with a computer, figure 4. The**

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system as taught by Mehovic has user graphical interface to control and receive data on its reservation system. **It would have been obvious to the skilled artisan at the time of the invention to provide a projector output as taught by Martin or Miyashita for the computer terminals or output device as taught by Mehovic for the purpose of displaying terminal data or information to more than the direct user given the public nature of reservation information and the obvious need for a large display, for a large public audience.** Wherein the system of Mehovic would modify its input terminals of figure 8 items 108 or 104, or the output means figure 4 item 100, for the purpose of outputting computer controlled projector displayed public information, as found in claim 13. Wherein Mehovic teaches of a computerized reservation system, wherein input commands by an end-users are used by a relational database sever application to coordinate and control a plurality of display means by virtue of a Passenger Name Record stored in the real time updated reservation system. The PNR is stored into four logical entities or tables in the relational database with are in total a reservation table, which is equivalent to said exposure list. The PNR is a mix of textual and parametric data, and serves to effect the display as seen by an end-user interacting with the database from a plurality of end-user locations. The display/projector control instructions would obviously be integrated into the application for interfacing the stored PNR with in the reservation system. Said textual data as well known comprised of textual bitmaps image or alpha-numeric characters, viewed within the confines of a graphical user interface. As the reservation information is changed, the database in updated, and the end-user becomes real time noticed of the change introduced by another end-user or due to

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previous set commands by the same user, such as when the PNR attribute purge date is scheduled to automatically eliminate or alter the status of a record. The system allows airline agents in a plurality of locations to access information via input display terminals, from the relational database and affect its change in real time, as well known.

9. Dependant **claims 2-12 and 14-24** would have been obvious to over Mehovic in view of Martin or Miyashita as applied to claims 1 and 13 above. It would have been obvious to the skilled artisan at the time of the invention to provide a projector output as taught by Martin or Miyashita for the computer terminals or output device as taught by Mehovic for the purpose of displaying terminal data or information to more than the direct user given the public nature of reservation information and the obvious need for a large display, for a large public audience. As in claims 2 and 14, Mehovic teaches of elective input means, column 3 lines 30-57. As in claims 3, 11, 15, and 23, while Mehovic and Martin are silent as to said features, they would have been an obvious design choice to the skilled artisan given an obstructed display defeats the displays purpose. As in claims 4 and 16, Miyashita teaches of a projector lens system, figure 4 item 12. As in claims 5-7, 17-19, and 21, Miyashita teaches of a coupling a projector to a projector computer for controlling and feeding said display, column 8 lines 1-65, wherein according to commands produced by the operating program 100 and application software 120, the driver software 110 performs actual detailed processing and data transfer with respect to the liquid crystal projector 10 in the computer 40. Further as in claims 8-10,

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12, 20, 22, and 24, said features would have been obvious to the skilled artisan for the purpose of providing a projector as well known in the art, as a secondary or primary computer display means, as taught by Martin and Miyashita.

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **David L. Lewis** whose telephone number is **(703) 306-3026**. The examiner can normally be reached on MT and THF from 8 to 5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala, can be reached on (703) 305-4938. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:


Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.


BIPIN SHALWALA
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600